

Title (en)  
PERMANENT MAGNET AND METHOD FOR PRODUCING THE SAME

Publication  
**EP 0362805 A3 19910724 (EN)**

Application  
**EP 89118356 A 19891003**

Priority  
JP 25085188 A 19881006

Abstract (en)  
[origin: EP0362805A2] When V is added to an Nd-Fe-B sintered magnet so as to modify the minority phase such that B is in excess of a stoichiometric composition of R<sub>2</sub>Fe<sub>14</sub>B compound-phase, this essentially does not form RFe<sub>4</sub>B<sub>4</sub>-compound minority phase but forms a finely dispersed V-T-B compound minority phase (T is Fe, and in a case containing Co, T is Fe and Co), the coercive force (iH<sub>c</sub>) is enhanced to 15 kOe or more. By an addition of from 0.01 to 1 at % of Cu the material's heat treatment characteristics are improved.

IPC 1-7  
**H01F 1/053**

IPC 8 full level  
**C22C 38/00** (2006.01); **C22C 38/16** (2006.01); **H01F 1/053** (2006.01); **H01F 1/057** (2006.01)

CPC (source: EP US)  
**H01F 1/0577** (2013.01 - EP US)

Citation (search report)

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- [A] EP 0261579 A1 19880330 - TOKIN CORP [JP]
- [A] EP 0251871 A2 19880107 - SHINETSU CHEMICAL CO [JP]
- [A] PATENT ABSTRACTS OF JAPAN, vol. 12, no. 3 (E-570), 7th January 1988; & JP-A-62 165 305 (HITACHI METALS LTD) 21-07-1987
- [A] PATENT ABSTRACTS OF JAPAN, vol. 12, no. 115 (E-599)[2962], 12th April 1988; & JP-A-62 244 105 (HITACHI METALS LTD) 24-10-1987

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DOCDB simple family (publication)  
**EP 0362805 A2 19900411; EP 0362805 A3 19910724; EP 0362805 B1 19940323**; AT E103412 T1 19940415; DE 68914078 D1 19940428; DE 68914078 T2 19940630; ES 2050750 T3 19940601; FI 103223 B1 19990514; FI 103223 B 19990514; FI 893600 A0 19890727; FI 893600 A 19900407; IE 891829 L 19900406; JP 2787580 B2 19980820; JP H02101146 A 19900412; US 4995905 A 19910226

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